# WASHING MACHINE IM8 CONTROLLED

# NOTICE FOR DISTRIBUTOR

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## 1. INTRODUCTION
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This manual explains how to program the IM8 computer equipping IMESA industrial washing machines.
It is written in compliance with European Community Directives in force. This manual is addressed to installer and user, whose need to fully understand the here given instructions before to work on the machine. This manual must always be available, in case it should be lost or damaged, ask for a new one to the manufacturer.
The manufacturer is not responsible for any consequence caused by a not proper use of the machine because of the misreading of this manual.
The manufacturer reserves itself the right to modify the characteristics mentioned in this manual or the characteristics of each machine.
Some pictures of this manual may differ from reality for some particulars or for some parts mounted on the machine.
Drawing and technical data may be modified without any previous notice
Manual and its attachments are parts themselves of the machine, so they must be kept together the machine and follow it in case of sale to another user.
Attachments and exploded view with spare parts list can be retrieved in IMESA web site restricted area. Before to access to the manufacturer technical area be sure that the machine serial number is available.

**ATTENTION!**
The manufacturer declines any responsibility about possible errors contained in this manual because of printing, translation or writing imprecision. The manufacturer reserves itself the right to make any necessary modification to the machine without affecting any machine essential characteristic. It is forbidden the copying, also partially, of the text or of the pictures of this manual without any previous manufacturer authorization.

## 2. INFORMATION FOR TECHNICIAN
INDEX

All the next information are integrating the already available user manual.
User manual and installer manual, delivered with the machine, are still valid.

## 3. TECHNICAL AREA PASSWORD
INDEX

The technical area password is ñ222222ò the access to technical area allows to change the parameters and the machine configurations, therefore it is compulsory to know the machine characteristics.

**ATTENTION!**
**The manufacturer is not responsible for damages to peoples, animals, objects or malfunctioning caused by changes made in this area.**

## 4. TECHNICAL AREA: PAYMENT SYSTEMS
INDEX

In the technical area there is a menu dedicated to the machine configuration in case the machine needs to work with a payment system.
The menu is called ñCOIN MECHANISM TYPEò and it is composed by the following options:

- NOT INSTALLED
- CENTRAL CASH
- COIN BOX

Select the wished system payment and confirm touching OK.
In case the option CENTRAL CASH is selected, the system will ask to identify the machine with a serial number which will identify the machine on the central cash (in the example the nr. 2): use the key ñ+ò and ñ-ñ until the wished number is on the screen and touch OK to confirm.

Once the payment system is set, the parameter ñMACHINE BUSY WITHò will appear among the TECHNICIAN parameters.

This parameter is used in case the machine set payment system is ñCENTRAL CASHò, and allows to decide the logic of the machine busy signal to the central cash.

If the parameter value is:

- C1.5: ON, then:
  - When the machine is on and a program is running the machine busy signal is high.
  - When the machine is on and no programs are running the machine busy signal is low.

- C1.5: OFF (standard IMESA in case of LAUNDRY POINT central cash), then:
  - When the machine is off or when the machine is on and a program is running the machine busy signal is low.
  - When the machine is on and no programs are running the machine busy signal is high.

NOTE: in case the set payment system is a coin box, the parameter ñMACHINE BUSY WITHòmust assume value ñC1.5: ONò In this case the coin box can be disabled while the program is running (additional credit is not accepted and coins are expelled).

When the payment system is set, among the TECHNICIAN parameters appears ñTIME TO RESET THE CREDITò(from 5ôto 30ô, default 30ô). With this parameter is possible to set the time after which the possible residual credit will be brought to zero.

NOTE: menus dedicated to the coin op machines are visualized only if IM8 is set with a payment system. About the system working and user basic parameters, please refer to IM8 PROGRAM MANUAL (link).

## 5. NEW WIZARD INSTALLATION

INDEX

To install WIZARD IM8, the set up file needs to be available.
The set up files has extension ñzipò and a dimension of about 150.000KB.

The file name presents this form: ñIM8W109.zipò the figures following the letter ñWò refer to the software version (1.09, in the example).

The file must be uploaded in the ñC:\ò of the computer.

**ATTENTION!**
**Before to install WIZARD IM8 close all the open programs.**

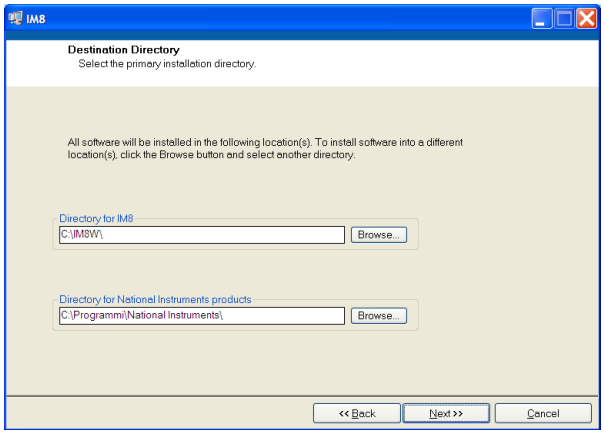
Extract to ñC:\òthe zip file.

During the extraction a password will be asked. Starting from IM8W rel. 1.08 the password is ñimesaspaò(lowercase).

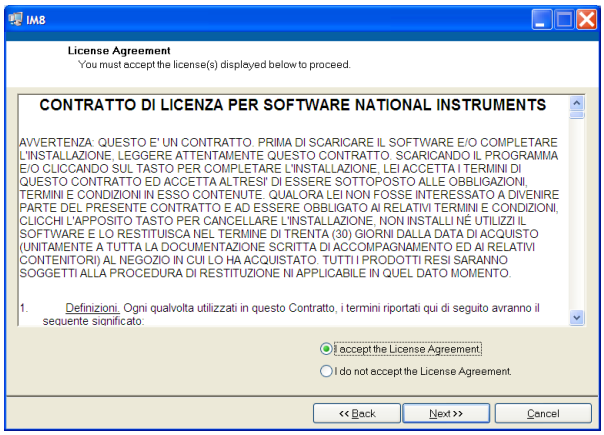
Once the extraction is finished, in ñC:\ò will appears two directories:
- VOLUME
- IM8W

Enter in the directory ñC:\VOLUMEò and start ñsetup Installerò

During the installation, confirm the default addresses and accept the contractual conditions. The following windows appears:




Confirm clicking on NEXT, it will appear:


IM8
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AVVERTENZA: QUESTO E' UN CONTRATTO. PRIMA DI SCARICARE IL SOFTWARE E/O COMPLETARE L'INSTALLAZIONE, LEGGERE ATTENTAMENTE QUESTO CONTRATTO. SCARICANDO IL PROGRAMMA E/O CLICCANDO SUL TASTO PER COMPLETARE L'INSTALLAZIONE, LEI ACCETTA I TERMINI DI QUESTO CONTRATTO ED ACCETTA ALTRESI' DI ESSERE SOTTOPOSTO ALLE OBBLIGAZIONI, TERMINI E CONDIZIONI IN ESSO CONTENUTE. QUALORA LEI NON FOSSE INTERESSATO A DIVENIRE PARTE DEL PRESENTE CONTRATTO E AD ESSERE OBBLIGATO AI RELATIVI TERMINI E CONDIZIONI, CLICCHI L'APPOSITO TASTO PER CANCELLARE L'INSTALLAZIONE, NON INSTALLI NÉ UTILIZZI IL SOFTWARE E LO RESTITUISCA NEL TERMINE DI TRENTA (30) GIORNI DALLA DATA DI ACQUISTO (UNITAMENTE A TUTTA LA DOCUMENTAZIONE SCRITTA DI ACCOMPAGNAMENTO ED AI RELATIVI CONTENITORI) AL NEGOZIO IN CUI LO HA ACQUISTATO. TUTTI I PRODOTTI RESI SARANNO SOGGETTI ALLA PROCEDURA DI RESTITUZIONE NI APPLICABILE IN QUEL DATO MOMENTO.
1. Definizioni. Ogni qualvolta utilizzati in questo Contratto, i termini riportati qui di seguito avranno il seguente significato:
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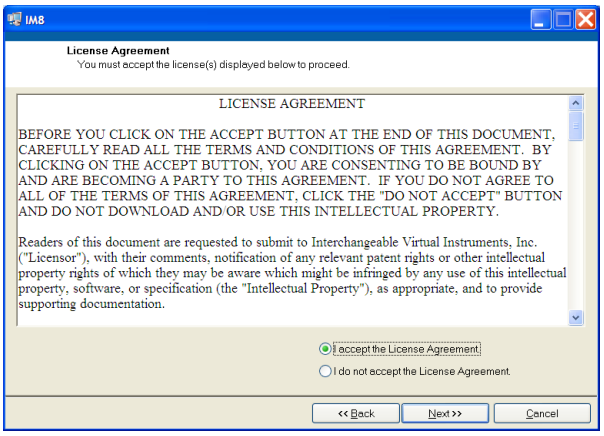
I do not accept the License Agreement
<< Back
Next >>
Cancel

Select ñI ACCEPTò and click on ñNEXTò. It will appear:


IM8
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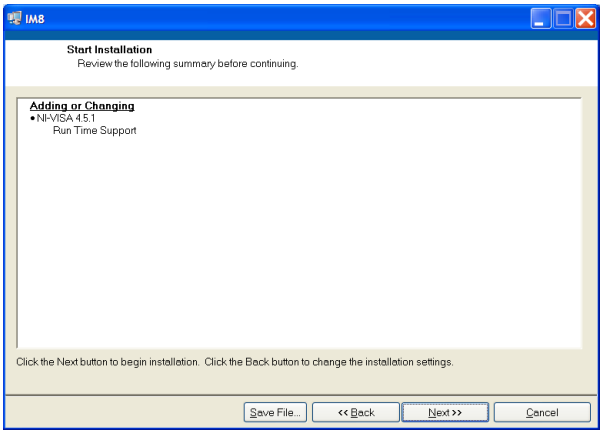
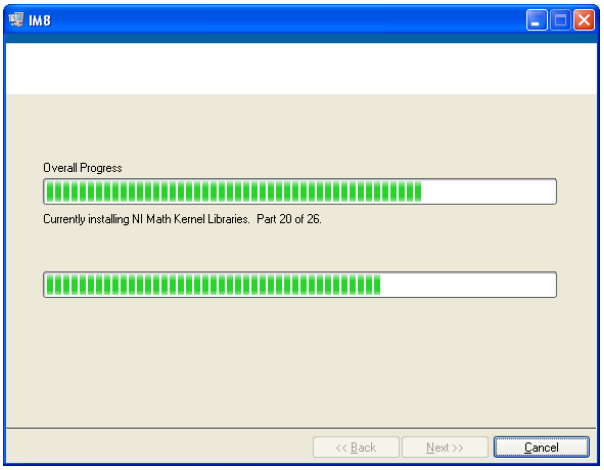
<< Back
Next >>
Cancel

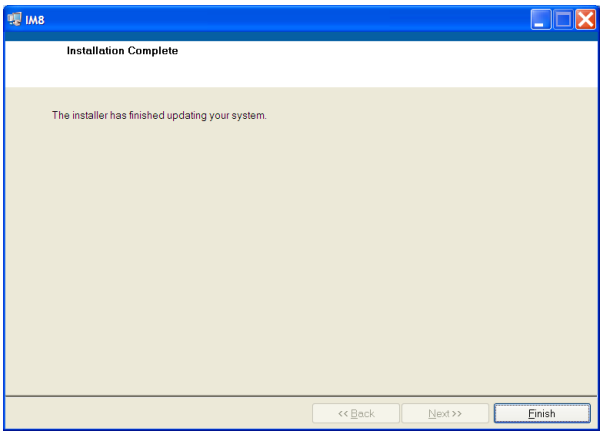
Select ñI ACCEPTò and click on ñNEXTò It will appear:




Click on ñNEXTò, the loading window will appear:




Alla fine del caricamento appare la seguente schermata:




To close the installation click on FINISH.
Restart the computer.
To start the program WIZARD IM8, enter in the directory ñC:\IM8Wò and click on the icon IM8W of the file ñIM8.exeò

To make quicker the program start, create a link to the file ñIM8W.exeòon your desktop.

## 6. WIZARD UPDATING

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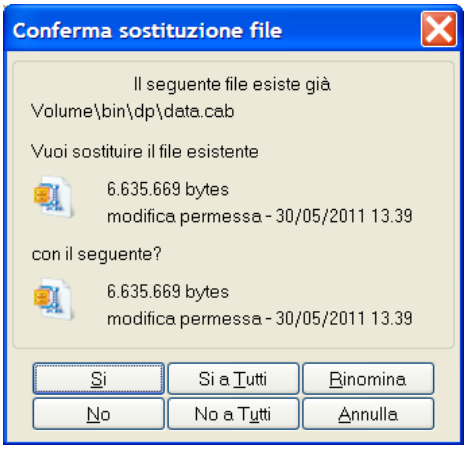
To update WIZARD IM8, the new zipped installation file must be available.
Import the new zipped file inside the directory C:\IM8W which already exist in the PC hard drive.
Extract the zipped file.
The new files will replace the existing ones, so the following window will appear:



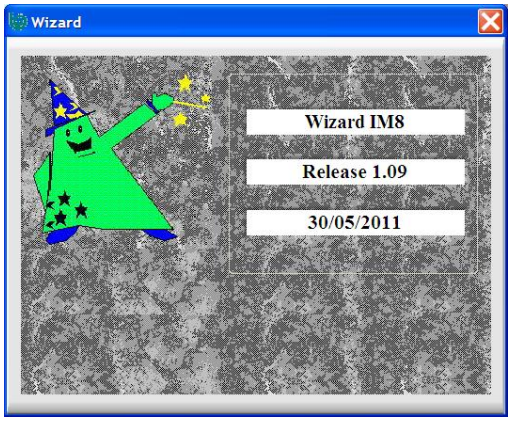

Select the option ñYes allò, the existing files will be overwritten with the new ones.
From this point the procedure will be the same described in the previous paragraph.

Enter in the directory ñC:\VOLUMEò and start ñsetup Installerò

**ATTENTION!**
**At the end of the program updating, control if the program was correctly installed.**

Start IM8W and open the menu Help\Info:

The following windows will open, the release number must match with the new installed (1.09, in the example):




NOTE: during the updating the folder DATABASE is not updated or modified. The program folders are not modified.

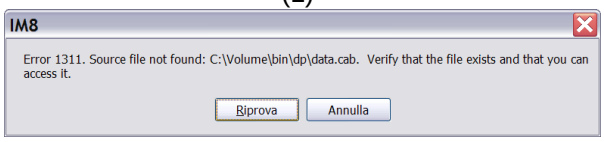
## 7. WIZARD: TROUBLESHOOTING

INDEX

During WIZART IM8 installation or use some alarms may appears, this alarm may prevent one or more operations.

The next paragraphs are highlighting a list of possible alarms and their solution.

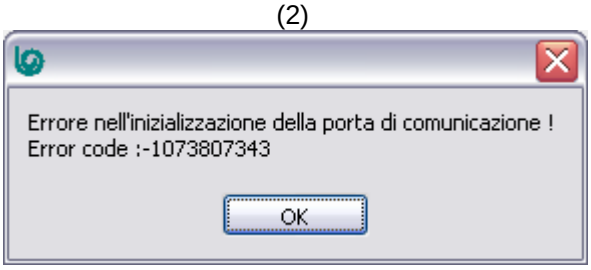
(1)


IM8
Error 1311. Source file not found: C:\Volume\bin\dp\data.cab. Verify that the file exists and that you can access it.
Riprova
Annulla

PROBLEM: this pop-up may appear in case of installation: it means that the unzip operation was not correctly done or not completed.

SOLUTION: unzip again the files and control that the operation is correctly and completely carried out. If the operation has not success, ask for the not zipped ñIM8Wò(17,5 MB) and ñVOLUMEò(156 MB) files and install them.

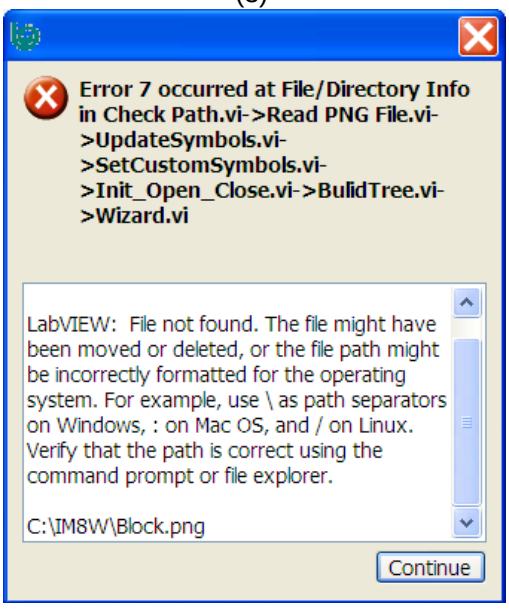
(2)




PROBLEM: this pop-up may appear at the IM8W start moment: it means the door initialized for communication is already used by another hardware.

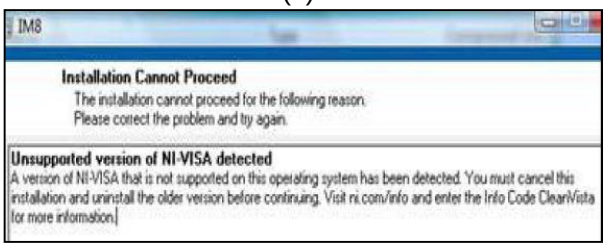
SOLUTION: Disconnect the hardware and restart the PC.

(3)


Error 7 occurred at File/Directory Info in Check Path.vi->Read PNG File.vi->UpdateSymbols.vi->SetCustomSymbols.vi->Init_Open_Close.vi->BulidTree.vi->Wizard.vi
LabVIEW: File not found. The file might have been moved or deleted, or the file path might be incorrectly formatted for the operating system. For example, use \ as path separators on Windows, : on Mac OS, and / on Linux. Verify that the path is correct using the command prompt or file explorer.
C:\IM8W\Block.png
Continue

PROBLEM: this pop-up may appear at the start moment: it means that the unzip of the ñpngò block was not correctly or completely done.
SOLUTION: see point (2): link.

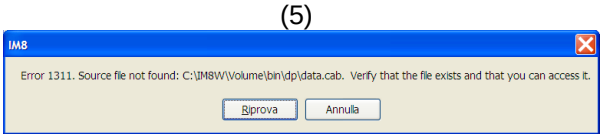
(4)


IM8
Installation Cannot Proceed
The installation cannot proceed for the following reason.
Please correct the problem and try again.
Unsupported version of NI-VISA detected
A version of NI-VISA that is not supported on this operating system has been detected. You must cancel this installation and uninstall the older version before continuing. Visit ni.com/info and enter the Info Code ClearVista for more information.

PROBLEM (VISTA OPERATING SYSTEM): a conflict with the previous installed IM8W version was verified.

SOLUTION: uninstall the IM8W previous version and start again the installation procedure.

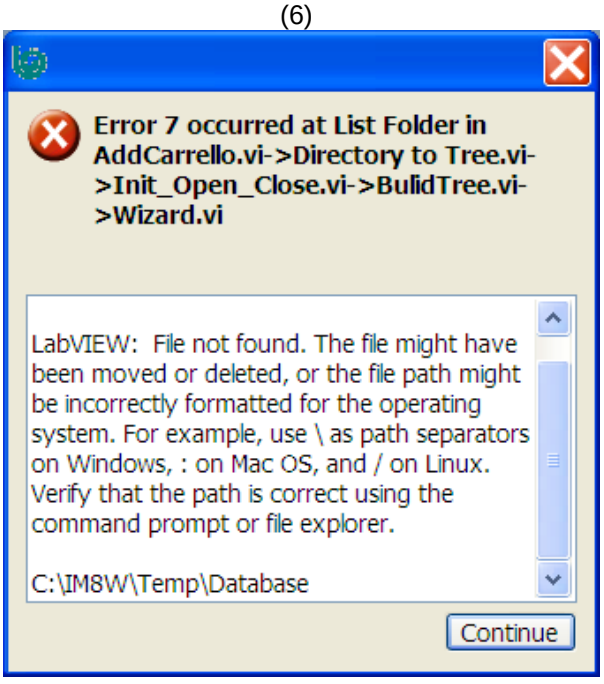
(5)


IM8
Error 1311. Source file not found: C:\IM8W\Volume\bin\dp\data.cab. Verify that the file exists and that you can access it.
Riprova
Annulla

PROBLEM: it may appear after the VOLUME setup was started.

SOLUTION: the original file unzip was not correctly done. The VOLUME directory needs to be deleted and the unzip operation needs to be done again.

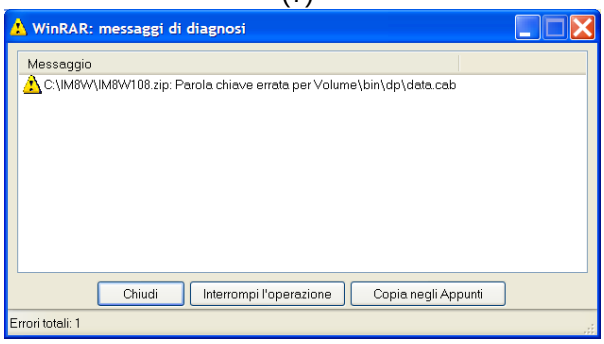
(6)


Error 7 occurred at List Folder in AddCarrello.vi->Directory to Tree.vi->Init_Open_Close.vi->BulidTree.vi->Wizard.vi
LabVIEW: File not found. The file might have been moved or deleted, or the file path might be incorrectly formatted for the operating system. For example, use \ as path separators on Windows, : on Mac OS, and / on Linux. Verify that the path is correct using the command prompt or file explorer.
C:\IM8W\Temp\Database
Continue

PROBLEM: it can appear at the program start and it means that the original zipped file was not correctly extracted

SOLUTION: see point (2): link.

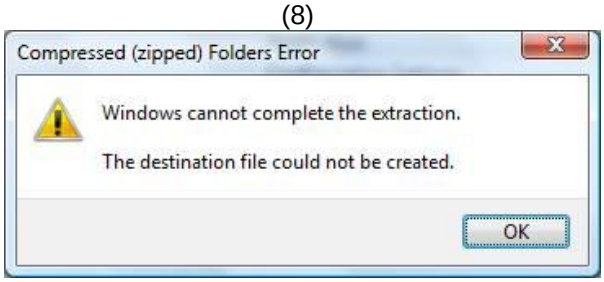
(7)




PROBLEM: the used password is not correct.

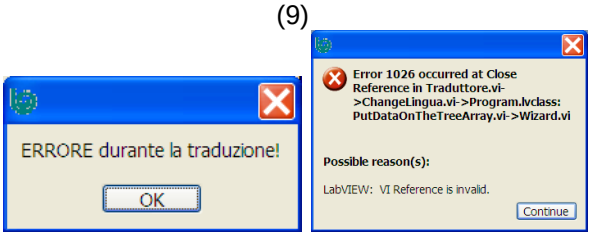
SOLUTION: close the procedure and start it again.

(8)




é
é

(9)




PROBLEM: translation in languages different from Italian are not complete.

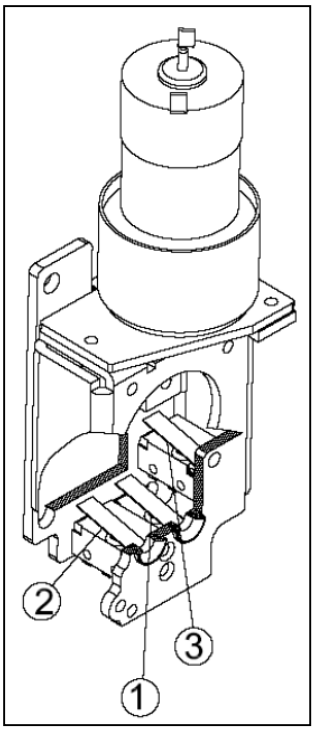
SOLUTION: update WIZARD IM8W at the version 1.10.

## 8. MOTORIZED DOOR CLOSING SYSTEM

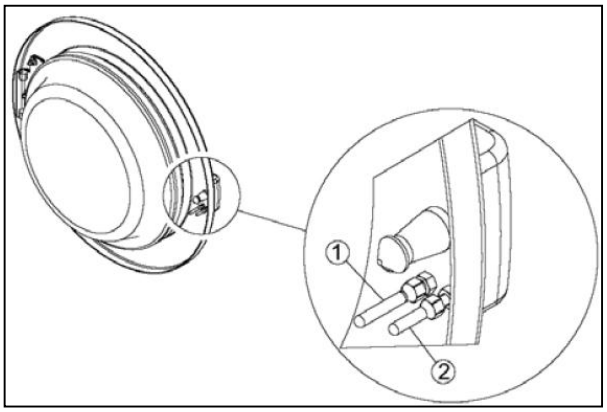
INDEX

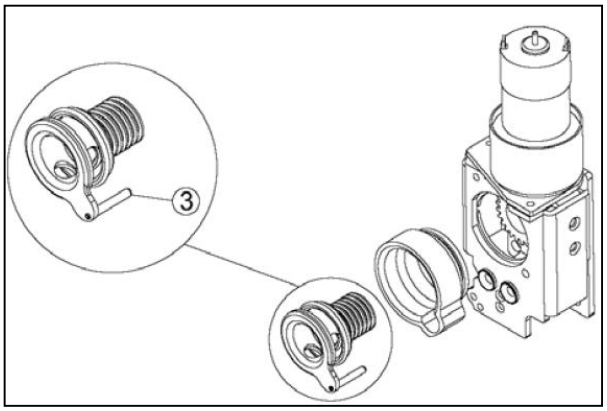
The door is closed and open by a motorized system.
The door working is determined by the opening and closing of three end switch, which are respectively called:

1. Door present
2. Door closed
3. Zero motor




The three end switch are closed or opened by the corresponding pin (see the number in the pictures)




The cycle can be started only if the end switch nr. 1 is closed.
This condition is verified when the user set ajar the door to the machine until the ñCLACKò can be heard, this sound is confirming that the tang is into the lock system.

When the tang is inserted, the end switch nr 1 must be recognized as closed, otherwise the cycle cannot start.
Touching the icon START, the cycle is started and the motorized door closing system begins to advance (the door move to the outer drum).

The motorized closing system advance until the end switch nr 2 closes. This operation must be completed within a maximum time called WDT DOOR CLOSING (from 0,0ò to 40,0ò, default 20,0ò).

If the WDT expires, the display shows highlighted in red the alarm ñWDT DOOR CLOSING EXPIREDò. The motorized closing system stops and reverses the movement until the door is opened.

Please note that if the WDT expires the following operation must be done:
- unscrew and bring the corresponding pin to the outer drum (DOOR CLOSED), in this way its route should be shorter (the gasket tightness must be kept)
- Make the WDT longer (be sure the advancement is not too much to avoid the possible closing system, or parts of it, breaking).

The pin nr2 position determine the condition of door closed (the door is tightening to water) .
During the time the door gasket could became harder.
Making shorter this pin, it is possible to make longer the door advancement and make stronger the door gasket pressure against the machine front (shorter is the pin, stronger will the pressure exercised on the gasket between the door and the machine front).
In the closing step is acting also the parameter of additional time ADVANCING AFTER DOOR CLOSING which allows the end switch to reach the stable equilibrium position (safety closing).
This parameter can be set with value 0 or from 1ò to 3ò, default 2ò. When the end switch nr. 2 closes, the motor does not stop immediately, instead it goes on for other 2ò (default value) taking off the pin from the electrical not stable equilibrium position.

During the door closing, the end switch nr 3 (ZERO MOTOR) position is not taken in consideration, unless an explicit command of stop.

In effect, if during the door closing the user should touch STOP, IM8 memorized the choice and:

- if ZERO MOTOR (3) is closed: the movement is immediately reversed and the door opens again (until ZERO MOTOR switch is opened)
- if ZERO MOTOR (3) is open: it waits for the ZERO MOTOR closing, then the movement is reversed and the door opens again (until ZERO MOTOR is open)

This behavior is necessary to make the ZERO MOTOR open/close and close/open change in different points.

In case of opening the DOOR PRESENT end switch (nr. 1) is irrelevant. When the machine completed the cycle (or the cycle is interrupted) IM8 wait for the safety time, check the water level and the temperature inside the drum and later it starts the door opening by itself.
The door continues to open until the pin (3) opens the corresponding end switch (ZERO MOTOR). This operation is controlled by two watchdog timers:

- A: the maximum time taken by the DOOR CLOSED pin (2) to come out from the corresponding end switch (making it open): it is called WDT DOOR OPENING (from 0,1ò to 5ò, default 4,5ò)
- B: the maximum time taken by the door lock to completely open (opening of the ZERO MOTOR (3) end switch): it is called WDT ZERO MOTOR (from 0,0ò to 40,0ò, default 20,0ò)

If the case A is verified, the screen shows ñWDT DOOR OPENING EXPIREDò, the door lock motor stops. The screen alarm stays until the screen is touched. As soon as the screen is touched, the door lock motor starts again until the ZERO MOTOR end switch is open.

If the case B is verified, the screen shows ñWDT ZERO MOTOR EXPIREDò, the door lock motor stops. The screen alarm stays until the screen is touched. As soon as the screen is touched, the homepage appears on the screen. During the opening step also the additional time parameter (ADVANCE AFTER ZERO MOTOR) is taken in consideration, in order to reach a stable equilibrium position of the end switch (safe opening). This parameter can be set with value 0 or form 1ò to 10ò, default value is 0,1ò.
When the end switch (3) is opened, the motor does not stop immediately, instead it goes back for other 0,1ò taking off the pin from the electrical instable equilibrium position.

NOTES
- The motorized lock speed is more or less 0,3mm/sec: when the ADVACE AFTER DORO CLOSED (2) and the ADVANCE AFTER ZERO MOTOR (3) additional times are the motorized lock speed must be taken in consideration.
- All the parameters referring the motorized door locking systems are listed in the TECHNICAL area in the DOOR MENU.
- Advance or back movement of the motorized door system can be made manually, in the technical AREA, using the charge test function:
  - MOTIN: makes the door goes back from the machine to the user
  - MOTAV: makes the door goes ahead from the user to the machine
- The buzzer associated with the door closing movement is on by default: it can be disabled modifying its value in the DOOR MENU:
  - DISABLE BEEP = YES: motorized door closing noiseless
  - DISABLE BEEP = NO: motorized door closing with buzzer